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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/756,993	01/14/2004	Michel Pompei	033339/273168	3726

826 7590 06/16/2006

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EXAMINER

LUKS, JEREMY AUSTIN

ART UNIT	PAPER NUMBER
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2837

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/756,993	Applicant(s) POMPEI, MICHEL	
	Examiner Jeremy Luks	Art Unit 2837	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 14 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/14/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Objections

1. Claim 1 is objected to as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear what Applicant is claiming in regards to the limitations, "an 'exciter' wall," and "a 'receiver' wall" as claimed.
2. Claim 3 recites the limitation "said layers of sound-absorbing material" in lines 3-4.
4. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Söderquist (4,317,503) in view of L'Heureux (4,924,969).

With respect to Claims 1 and 2, Söderquist teaches soundproofing panel comprising a first wall (Figure 6, #2) putting into contact with a fluid containing a source of noise and a second wall (7) for putting into contact with a fluid in which the noise to be attenuated, the panel further comprising at least one intermediate element (5) between said walls (2, 7) and the intermediate element (5) comprises over at least a portion of its outline at least one element (9) providing coupling between the intermediate element (5) and only the second wall (7). Söderquist fails to teach wherein

the element provides elastic coupling, and is situated only over the outline of the intermediate element or over least a portion said outline. L'Heureux teaches an element (Figure 1, #12) providing elastic coupling (Col 4, Lines 3-13), and is situated only over a portion of the outline of an intermediate element (10). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the apparatus Söderquist of with the apparatus of L'Heureux to improve performance and sound absorption/filtering of the structure.

With respect to Claim 3, Söderquist teaches the intermediate element is a rigid intermediate plate (5) (Col. 1, Lines 53-56, Col. 4, Lines 5-6). Söderquist fails to teach two layers of sound-absorbing material surrounding the intermediate plate, the assembly constituted by the intermediate plate and the two layers of sound-absorbing material being sandwiched between said two walls. L'Heureux teaches two layers of sound-absorbing (Figure 1, #7, 8) material surrounding an intermediate area (3). When used in combination with Söderquist, the assembly is constituted by the intermediate plate (Söderquist, Figure 6, #5) and the two layers of sound-absorbing material (L'Heureux, Figure 1, #7, 8) being sandwiched between the two walls (Söderquist, Figure 6, #2, 7).). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the apparatus Söderquist of with the apparatus of L'Heureux to improve performance and sound absorption/filtering of the structure.

With respect to Claims 4-6, Söderquist teaches flexible elements are a plurality of suspension studs (Figure 5, 9) distributed along the periphery of the intermediate sheet (5). Söderquist fails to teach the flexible elements are made of a flexible material, elastomer material, and where a flexible element is a strip of flexible, elastomer

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material. L'Heureux teaches a flexible element made of a flexible material, elastomer material, and where a flexible element is a strip (Figure 1, #12) of flexible material, elastomer material (Col. 4, Lines 3-26). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the apparatus Söderquist of with the apparatus of L'Heureux to improve performance and sound absorption/filtering of the structure.

With respect to Claims 7-9, Söderquist teaches a rigid frame with an inner opening secured to a second wall and an intermediate element attached to a support element. Söderquist fails to teach wherein at least one flexible element is arranged between the frame and the intermediate element. L'Heureux teaches a flexible element (Figure 1, #12). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the apparatus Söderquist of with the apparatus of L'Heureux to improve performance and sound absorption/filtering of the structure. Further, it would have been obvious to one of ordinary skill in the art at the time the invention was made to move the flexible element(s) from between the intermediate element and second wall to between the intermediate element and the rigid frame, since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70.

With respect to Claims 10 and 11, Söderquist teaches a rigid frame (Figure 6, #10) secured to the intermediate sheet (5), and wherein one said support element (9) is fixed between the frame (10) and the second wall (7). Söderquist fails to teach wherein at least one support element is a flexible wall made up of one or more segments. L'Heureux teaches at least one support element is a flexible wall (Figure 1, #12) made

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up of one or more segments. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the apparatus Söderquist of with the apparatus of L'Heureux to improve performance and sound absorption/filtering of the structure.

With respect to Claims 12-14 and 16, Söderquist teaches the rigid frame (Figure 6, #10) is a cellular array of the honeycomb type presenting an array of cells, in particular hexagonal cells, sandwiched between two rigid plates (2, 7), and the rigid frame (10) defines a plurality of internal cavities or openings which are filled at least in part with soundproofing material (Col. 2, Lines 11-26), and the panel (Figure 6) includes an intermediate element (5) covering at least the outer outline of the rigid frame (10).

With respect to Claim 15, Söderquist is relied upon for the reasons and disclosures set forth above. Söderquist fails to teach wherein the panel comprises a plurality of intermediate elements, each covering one or more openings of the rigid frame. L'Heureux teaches a panel (Figure 1, #1) comprises a plurality of intermediate elements (9, 10), each covering one or more openings of the rigid frame taught by Söderquist (Figure 6, #10) when used in combination. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the apparatus Söderquist of with the apparatus of L'Heureux to improve performance and sound absorption/filtering of the structure.

Conclusion


4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pertinent arts of record relating to soundproofing panels are disclosed in the PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy Luks whose telephone number is (571) 272-2707. The examiner can normally be reached on Monday-Thursday 8:30-6:00, and alternating Fridays 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on (571) 272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeremy Luks
Patent Examiner
Art Unit 2837


LINCOLN DONOVAN
SUPERVISORY PATENT EXAMINER